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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,212	12/04/2001	Jeong S. Lee	ACSC 60308 (2864)	7883
7	590 01/15/2003			
GUNTHER O. HANKE, ESQ. FULWIDER PATTON LEE & UTECHT, LLP HOWARD HUGHES CENTER 6060 CENTER DRIVE, TENTH FLOOR LOS ANGELES, CA 90045			EXAMINER	
			DESANTO, MATTHEW F	
			ART UNIT	PAPER NUMBER
	,		3763	
			DATE MAILED: 01/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			111		
		Application No.	Applicant(s)		
Office Action Summary		10/010,212	LEE ET AL.		
		Examiner	Art Unit		
		Matthew F DeSanto	3763		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address		
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed on 04 l	<u>December 2001</u> .			
2a)	This action is FINAL . 2b)⊠ Th	is action is non-final.			
3)					
Dispositi	closed in accordance with the practice under ion of Claims	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.		
·	Claim(s) 1-39 is/are pending in the application	l.			
,—	4a) Of the above claim(s) <u>6-8,10-15,20,22,34 a</u>	nnd 36 is/are withdrawn from con	sideration.		
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-5,9,16,23-33 and 37-39</u> is/are reject	ted.			
7)🖾	Claim(s) 17-19 and 21 is/are objected to.				
=	Claim(s) are subject to restriction and/o	r election requirement.			
9) 🗌 🤄	The specification is objected to by the Examine	r.			
10)	The drawing(s) filed on is/are: a)☐ accep	oted or b)⊡ objected to by the Ex a	aminer.		
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).		
11) 🔲	The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disappr	oved by the Examiner.		
	If approved, corrected drawings are required in re	oly to this Office action.			
12) 🗌	The oath or declaration is objected to by the Ex	aminer.			
Priority (ınder 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	s have been received in Applicat	tion No		
* 5	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119((e) (to a provisional application).		
)				
Attachmen	t(s)				
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)		
J.S. Patent and T PTO-326 (Re		ction Summary	Part of Paper No. 7		

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DETAILED ACTION

Election/Restrictions

- Applicant's election without traverse of Invention I, Species B (Figures 4-7) in
 Paper No. 6 is acknowledged.
- 2. Claims 12-15, 20, 22 and 36 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Invention and Species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 6.
- 3. The examiner further withdraws claims 6, 7, 8, 10, 11, and 34 from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Invention and Species, there being no allowable generic or linking claim. Claims 6, 7, are drawn to multi-layered inner tubular member, claims 8, 34 are drawn to a multi-layered reinforcing tube, and claims 10, 11 are drawn to the proximal tubular member comprising a first tube and a second tube.

Claim Rejections -

35 USC § 102 or 35 USC § 103

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 5, 9, 23, 24, 25, 26, 27, 28, and 29 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Verbeek (USPN 5690613).

Verbeek discloses a balloon (35) catheter with an elongated shaft having an inflation lumen, a guide-wire receiving lumen, a proximal shaft section comprising a proximal tubular member (50) with a mandrel (30), a distal shaft section comprising an outer tubular member (80), and an inner tubular member (70) and a reinforcing member (13) formed of a first polymeric material having a glass transition temperature greater than the glass transition temperature of a second polymeric material forming the distal portion of the proximal tubular member. (Figures 1A, 1B, 1C, and entire reference).

According to Etherington & Roberts dictionary, Verbeek inherently teaches that the first polymeric material has a higher glass transition temperature then the second polymeric material due to the fact that the first polymeric material is used as a reinforcing structure and would be less flexible to provide support when maneuvering the catheter throughout the body.

7. Claims 1, 16, 25, 27, 28, 29 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wantink (5300025).

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Wantink discloses a balloon (25) catheter with an elongated shaft having an inflation lumen, a guide-wire receiving lumen, a proximal shaft section comprising a proximal tubular member (26), a distal shaft section comprising an outer tubular member (13), and an inner tubular member (16) and a reinforcing member (28) formed of a first polymeric material having a glass transition temperature greater than the glass transition temperature of a second polymeric material forming the distal portion of the proximal tubular member. (Figures 1-5, and entire reference).

According to Etherington & Roberts dictionary, Wantink inherently teaches that the first polymeric material has a higher glass transition temperature then the second polymeric material due to the fact that the first polymeric material is used as a reinforcing structure and would be less flexible to provide support when maneuvering the catheter throughout the body.

8. Claims 1 - 5, 9, 23 - 33, 35 and 37-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verbeek as applied to claims 1, 5, 9, 23, 24, 25, 26, 27, 28, and 29 above, and further in view of Samson et al. (USPN 5782811).

Verbeek disclosed the claimed invention except for using a thermoset polyimide.

Samson et al. discloses the use of a thermoset polyimide with a reinforcing structure in a catheter because of the chemical property, which would give the catheter enough flexible, and strength to maneuver the catheter through the body. (Fig 9, and Column 12, lines 37-62 and entire reference)

At the time of the invention, it would have been obvious for one of ordinary skill in the art to substitute a thermoset polyimide as the reinforcing polymer because Samson Application/Control Number: 10/010,212

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et al. taught the usefulness of thermoset polyimide due to the chemical property and high flexural moduli, which allows for flexibility and stiffness which is beneficial in a material that is going to be used in a catheter.

Therefore, it would have been obvious to combine Verbeek with Samson et al. to obtain the invention as specified in claims 1 - 5, 9, 23 - 33, 35 and 37-39.

Allowable Subject Matter

9. Claims 17, 18, 19 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew F DeSanto whose telephone number is 1-703-305-3292. The examiner can normally be reached on Monday-Friday 8:30-6:00.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 1-703-308-0858.

Matthew DeSanto Art Unit 3763 January 9, 2003

Marke

ANHTUANT. NGUYEN PRIMARY EXAMINER